

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Jill Bertelson

GENERAL INFORMATION:

Name:	Wacker Polymer Systems, L.P. Spray Dry Plant
Address:	P.O. Box 97, Calvert City, Kentucky 42029-0097
Date application received:	December 10, 1998
SIC/Source description:	2821/ Manufacturer of Industrial Chemicals
AFS(10-digit) Plant ID:	21-157-00050
EIS #:	072-2600-0050
Application log number:	F906
Permit number:	V-99-057

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☒ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM	18.92	18.92
SO ₂	0	0
NO _x	0	0
CO	0	0
VOC	32.80	32.80
LEAD	0	0
HAP > 10 tpy (by CAS)		
67-56-1 Methanol	21.92	21.92
108-05-4 Vinyl Acetate	10.88	10.88

SOURCE PROCESS DESCRIPTION:

The Spray Dry Plant consists of 2 process lines, constructed in 1987 and 1995, which produce a dried emulsion product. The dried emulsion is made by mixing wet emulsion from the Air Products Emulsion Plant, PVOH from the Air Products PVOH Plant, water and some additives batch-wise in tanks then continuously feeding the solution into the Spray Dry Tower which dries the solution to a powder. The spray dried powder is mixed with a clay filler and processed through a product-recovery baghouse, product filter, screener, and silo before being bagged. Both lines have identical equipment except that the second process line has 2 recycle bins—one for recycled product and one for additives.

Pollutants that are emitted from this source are methanol and vinyl acetate, which are VOCs and HAPs, and particulate.

The Spray Dry Plant was part of Air Products and Chemicals, Inc. (21-157-00009) and ownership was transferred to Wacker in 1998.

EMISSION AND OPERATING CAPS DESCRIPTION:

Not Applicable